

MAZUROVA, V.M.; SAVEL'YEVA, G.M.

Criteria for pain sensitivity in labor. Akush.i gin. no.5:51-
54 '61. (MIRA 15:1)

1. Iz kafedry akusherstva i ginekologii (zav. - zasluzhenyy
deyatel' nauki BSSR, chlen-korrespondent AMN SSSR prof. L.S.
Persianinov) lechebnogo fakul'teta II Moskovskogo ordena Lenina
meditsinskogo instituta imeni N.I. Pirogova.
(LABOR (OBSTETRICS)) (PAIN)

MAZUROVA, V.M.

Psychoprophylactic preparation of pregnant subjects for labor
in a maternity health center. Akush. i gin. 37 no.1:69-72 '61.

(MIR: 14:6)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. L.S.
Persianinov) lachebnogo fakul'teta II Moskovskogo meditsinskogo
instituta imeni N.I. Pirogova.

(CHILDBIRTH--PSYCHOLOGY)

FRINOVSKIY, Vyacheslav Sergeyevich; MAZUKOVA, V.P., red.; BUKOVSKAYA,
N.A., tekhn. red.

[Regional anesthesia in gynecological surgery] Regionarnaya
anesteziya pri ginekologicheskikh operatsiyakh. Moskva, Medgiz
1963. 108 p. (MIRA 17:2)

BODYAZHINA, Vera Il'inisha MAZUROVA, V.M., red.

[Manual of obstetrics, Uchebnik akusherstva. 3 izd., dop.
Moskva, Meditsina, 1964. 451 p. (M.RA 17:8)]

GRYAZNOVA, Irina Mikhaylovna; MAZUROVA, V.M., red.

[X-ray pelveography, phlebography and endoscopy in
gynecology] Rentgenopel'veografiia, flebografiia i endo-
skopiia v ginekologii. Moskva, Meditsina, 1965. 143 p.
(MIRA 18:8)

GRYAZNOVA, I.M., dotsent; MATUROVA, V.M.; MGALOBlishvili, G.I.

Pelvic phlebography in the diagnosis of some gynecological diseases. Akush. i gin. 40 no.2:94-100 Mr-Apr '64.

AMNA 17:11

1. Kafedra akusherstva i ginekologii (zav. - chlen-korrespondent AMN SSSR prof. L.S. Persianinov) i kafedra urologii (zav. - chlen-korrespondent AMN SSSR prof. A.Ya. Pytel') lechebnogo fakul'teta II Moskovskogo meditsinskogo instituta imeni Pirogova.

MAZUROVA, Ye.K., starshaya med.sestra (Kemerovo)

Methods involved in the use of narcotics. Med.sestra 17 no.5:26-27
My'58 (MIRA 11:6)

(NARCOTICS)

ARBUZOV, S.V.; KVIATKOVICH, I.K.; MAZUROVA, Z.N.

Contact method for drying chrome leather. Kozh.-obuv.prom.
2 no.10:27-28 0 '60. (MIRA 13:11)
(Leather--Drying)

PARKHOMENKO, V.N., dotsent; MAZUROVSKAYA, B.M.

Closed injuries of the liver. Vrach.delo no.4:383-386 Ap '60.
(MIRA 13:6)

1. Khirurgicheskaya klinika (sav. - zaslushennyy deyatel' nauki,
prof. A.K. Gorchakov) stomatologicheskogo fakul'teta Kiyevskogo
meditsinskogo instituta i Pervaya Podol'skaya bol'nitsa (glavnyy
vrach - Ye.P. Ryabova).

(LIVER--WOUNDS AND INJURIES)

GORCHAKOV, A.K., prof., zasluzhennyy deyatel' nauki; MAZUROVSKAYA, B.M.

Adenoma of the parathyroid glands. Vrach.delo no.4:413-415
Ap '60. (MIRA 13:6)

1. Khirurgicheskaya klinika (zav. - zasluzhennyy deyatel' nauki
prof. A.K. Gorchakov) stomatologicheskogo fakul'teta Kiyevakogo
meditsinskogo instituta i Pervaya Podol'skaya bol'nitsa (glavnyy
vrach - Ye.P. Ryabova).
(PARATHYROID GLANDS--TUMORS)

MAZUROVSKIY, Z.

Favorable conditions for the training of construction workers. Prof.
-tekhn. obr. 20 no.1:12 Ja '63. (MIRA 16:2)

1. Zaveduyushchiy uchebno-metodicheskiy kabinetom Poltavskogo
oblastnogo upravleniya professional'no-tekhnicheskogo obrazovaniya.
(Building trades—Study and teaching)

11103-2-2000-11
CHODERA, Leon; MAZUROWA, Aleksandra.

Atypical hypoglycemic states in a clinic of internal medicine.
Polski tygod. lek. 10 no.44:1425-1429 31 Oct 55.

1. Z I Kliniki Chorob Wewnętrznych A.M. w Poznaniu; kierownik:
prof. dr. Stefan Kwasniewski. Poznan, I Klinika Chor.Wewn. A.M.
(HYPOGLYCEMIA,
atypical cases)

MAZUROWA, A.

EXCERPTA MEDICA Sec.18 Vol.1/8 Cardiovascular Aug 57

2235. MAZUROWA A. and MARCINIAK-SKUBISZYNSKA A. 1. Klin. Chorób Wewnet. Akad. Med., Poznan. Zmiany w sercu w przebiegu goscica pierwotnie przewleklego. Na podstawie wlasnych spostrzezen *Heart lesions in the course of rheumatoid arthritis on the basis of personal observations* Pol. Arch. Med. wewnet. 1956, 26/6 (889—897) Tables 2

Although a theory has been accepted that rheumatoid arthritis does not injure the heart, anatomo-pathological investigations of many authors show from 4 to 90% of lesions in the heart in the course of rheumatoid arthritis. The results of clinical examinations are divergent also, but the percentage of lesions detected in the heart is considerably lower. One hundred patients with rheumatoid arthritis were examined and the impairment of the heart was found in 25% of the cases, among them 7 cases of defect of the bicuspid valve. Only in one case was the circulation failure noted. Cases with acute commencement of the disease, which in its further course took on the form of rheumatoid arthritis were taken into account. A group of 40 patients below the 40th year of life was separated and the same percentage of the lesions was found among them as in the older patients. There were no clinical symptoms of pericarditis. No typical syndromes of coronary disease were noted, although the ECG investigations in a great percentage of cases showed lesions diagnosed as myocardial hypoxia. It seems that rheumatoid arthritis in its localization does not avoid the heart, but causes musculovascular lesions in it as well.

(VI, 18)

MAZUROWA, A.

EXCERPTA MEDICA Sec.13 Vol.1/6 Cardiovascular June 57

1574. MAZUROWA A., CHODERA L. and SMARSZ C. 1. Klin. Chor. Wewn. A. M., Poznan. Zmiany elektrolitów krwi w czasie poinsulinowych lekkich stanów hipoglikemicznych i ich wpływ na krzywa elektrokardiograficzna *Blood electrolytes changes during the post-insulin light hypoglycaemic states and their influence on the ECG curve* Pol. Arch. Med. wewn. 1956, 26/9 (1349—1364) Graphs 5 Tables 1

In the course of the treatment of diabetes with insulin there were observed severe hypoglycaemic comas, which did not always disappear in spite of administration of big doses of glucose. Hypokalaemia was conjectured as a possible explanation. During the light hypoglycaemic states, which had been therapeutically applied, there were investigated in 12 patients: behaviour of the sodium, potassium and sugar levels in the blood, while at the same time the ECG curves were performed, and in a part of the cases the phonocardiographic tests as well. In almost all the cases the decrease of sugar level in the blood was accompanied by a distinct decrease of potassium level in the serum, with an unchanging sodium level. The ECG changes observed are typical both for hypoglycaemia and for hypokalaemia. At the same time the phonocardiogram showed sometimes a picture which is called by Hegglin the energetic-dynamic circulation insufficiency. A thorough analysis of the curves showed that the ECG changes appear at the moment of decrease of the sugar and potassium levels in the blood, and they withdraw with the return of sugar level to normal, in spite of the potassium level continuing to be decreased. In some cases, although the potassium level is not decreased, the typical ECG changes, appearing with the decrease of the sugar level, were noted. It has to be concluded that the ECG picture, seen during the hypoglycaemia, depends in the first place on the sugar level in the blood, and not on the decrease of the potassium level. (VI, 18)

EXCERPTA MEDICA Sec 18 Vol. 1/12 Cardiovas. Dis Dec 57

3342. MAZUROWA A. and SEIDEL A. r. Klin. Chor. Wewnętr. Akad. Med., Poznań. *Zmiany EKG podczas napadów paralysis paroxysmalis ECG changes during seizures of periodic paralysis* Pol. Tyg. lek. 1957, 12/32 (1240—1242)

This is a description of a case of paroxysmal paralysis, in which during the provoked attacks of paralysis a decrease of the potassium level in the blood serum and ECG changes characteristic for hypopotassaemia had been noted. In this case the dose of potassium chloride necessary to interrupt the paroxysm has been fixed and it has been recommended as a therapeutic dose. The dependence of ECG changes on the potassium level in the blood serum and on the carbohydrate metabolism is discussed, and the role of the cortico-hypothalamo-hypophyseo-adrenal system is emphasized.

(XVIII, 8)

MAZURKOWA, ALEXANDRA
MONDELSKI, Stanislaw; MAZUROWA, Aleksandra

Effect of thyroid vaccine therapy of eye diseases on the circulatory system. Klin. oczna 27 no.4:607-615 1957.

1. Z Kliniki Ocznej A. M. w Poznaniu p. o. Kierownika: dr med.
K. Dziegielewski z I Kliniki Chorob Wewnętrznych A. M. w Poznaniu.
Kierownik: prof. dr med. S. Kwasniewski.

(EYE DISEASES, ther.

fever ther. using typhoid vaccine, eff. on cardiovasc.
system (Pol))

(VACCINE AND VACCINATION, eff.

typhoid vaccine for fever ther. of skin dis., eff. on
cardiovasc. system (Pol))

(CARDIOVASCULAR SYSTEM, eff. of drugs on

typhoid vaccine in fever ther. of skin dis. (Pol))

(FEVER THERAPY, eff.

typhoid vaccine used for fever ther. of skin dis., eff. on
cardiovasc. system (Pol))

~~MAZUROWA~~
CHODERA, Leon; MAZUROWA, Aleksandra; SMARSZ, Czeslaw

Studies on correlation between metabolic changes manifested by electrolytes and carbohydrates and electrocardiographic changes following adrenalin therapy. Polskie arch. med. wewn. 27 no.10: 1319-1333 1957.

1. Z I Kliniki Chorob Wewnetrznych A.M. w Poznaniu Kierownik: prof. dr med. S. Kwasniewski. Adres autora: Poznan, ul. Długa 1/2 I. Klin. Chor. Wewn. A.M.

(EPINEPHRINE, effects,
on blood sugar, potassium & on ECG (Pol))
(BLOOD SUGAR, effect of drugs on,
epinephrine, relation to blood potassium & ECG (Pol))
(POTASSIUM, in blood,
eff. of epinephrine, relation to blood sugar & ECG (Pol))
(ELECTROCARDIOGRAPHY,
eff. of epinephrine, relation to blood sugar & potassium
(Pol))

MAZUROWA, Aleksandra; CHODERA, Leon; SMARSZ, Czeslaw

Effects of shifting of blood serum electrolytes on ECG curve during hypoglycemia and after adrenalin administration. Polskie arch. med. wewn. 28 no.4:541-543 1958.

1. Z I Kliniki Chorob Wewnętrznych A.M. w Poznaniu. Kierownik: prof. dr med. S. Kwasniewski.

(HYPOGLYCEMIA,

eff. on blood electrolytes & ECG (Pol))

(EPINEPHRINE, eff.

on ECG in relation to blood electrolytes (Pol))

(ELECTROCARDIOGRAPHY,

eff. of hypoglycemia & epinephrine admin. in relation to blood electrolytes (Pol))

(ELECTROLYTES, in blood

eff. of hypoglycemia & epinephrine admin. in relation to ECG (Pol))

CHODERA, Leon; MAZUROWA, Aleksandra; SMARSZ, Czeslaw

On the investigations on the relationships between metabolic, electrolytic and carbohydrate exchange and electrocardiographic changes in the so-called energy-dynamic cardiac insufficiency. III. Hypoglycemic states interrupted by adrenalin. Polskie arch.med.wewn. 29 no.5:581-587 '59.

1. Z I Kliniki Chorob Wewnętrznych A. M. w Poznaniu Kierownik:
prof. dr med. S. Kwasniewski.

(ELECTROCARDIOGRAPHY pharmacol)

(HYPERINSULINISM)

(EPINEPHRINE pharmacol)

(WATER ELECTROLYTE BALANCE)

KESIK, M.; MAZUROWA, A.; MAZUR, M.

Studies on the effect of quinine, quinidine, procaine and procaine amide on oxygen metabolism in isolated frog hearts. Acta physiol. polon. 11 no.5/6:770-771 '60.

1. Z Zakladu Farmakologii P.A.M. w Szczecinie. Z Kliniki Chorob Wewnętrznych A.M. w Poznaniu.

(MYOCARDIUM metab)

(QUININE pharmacol)

(QUINIDINE pharmacol)

(PROCAINE pharmacol)

(PROCAINE AMIDE pharmacol)

MAZUROWA, Aleksandra; NOWAK, Stefan

Studies on the effect of acute ethyl alcohol poisoning on the ECG curve and carbohydrate-electrolyte metabolism. Polski tygod. lek. 15 no.51:1953-1958 19 D '60.

1. Z I Kliniki Chorob Wewnętrznych A.M. w Poznaniu; kierownik:
prof. dr Stefan Kwasniewski.

(ALCOHOLIC INTOXICATION)

(ELECTROCARDIOGRAPHY)

(BLOOD SUGAR)

(ELECTROLYTES blood)

MAZUROWA, Aleksandra; SOJKA, Stanislaw

Changes in the coronary vessels of the heart in arteriosclerosis
obliterans. Poznan. tow. przyjaciel nauk, wyd. lek. 18 no. 4: 127-
133 '60.

(CORONARY DISEASES pathol.)

SKOWRONSKA, Irena; MAZUROWA, Aleksandra

Observations on the effect of x-rays on the heart. Nowotwory 11
no.3/4:365-376 '61.

1. Z Wojewodzkiego Ośrodka Onkologicznego w Poznaniu Dyrektor: dr
med S.Skowronski; i z I Kliniki Chorob Wewnętrznych AM w Poznaniu
Kierownik: prof. dr med. S.Kwasniewski.
(HEART radiation eff) (RADIATION INJURY exper)

KESIK, M.; MAZUROWA, A.; MAZUR, M.

Experimental studies on the effect of quinine, quinidine and procaine amide on ECG and on oxygen consumption by the heart muscle. Polskie arch. med. wewn. 31 no.4:469-479 '61.

1. Z I Kliniki Chorob Wewnętrznych AM w Poznaniu Kierownik Kliniki:
prof. dr med. S. Kwasniewski i z Zakładu Farmakologii PAM w Szczecinie
Kierownik Zakładu: doc. dr med. M. Mazur.

(ELECTROCARDIOGRAPHY pharmacol) (MYOCARDIUM metab)
(QUININE pharmacol) (QUINIDINE pharmacol)
(PROCAINE pharmacol) (PROCAINE AMIDE pharmacol)

MAZUROWA, Aleksandra; MROZIKIEWICZ, Aleksander

Effect of glutamic acid on the circulatory system of experimental animals. Acta physiol. polon. 13 no.6:797-806 '62.

1. Z I Kliniki Chorob Wewnętrznych AM w Poznaniu Kierownik: prof. dr S. Kwasniewski Z Zakładu Farmakologii AM w Poznaniu Kierownik: prof. dr J. Dadlez.

(BLOOD CIRCULATION) (ELECTROCARDIOGRAPHY) (HYPOTENSION)
(ARRHYTHMIA) (HEART ARREST) (GLUTAMATES)

MAZUROWA, Aleksandra

Electrocardiographic studies in post-insulin hypoglycemia.
Poznan. tow. przyjac. nauk wydz. lek. 25:79-144 '63.

(HYPERINSULINISM) (ELECTROCARDIOGRAPHY)

PROZIKHENKO, Aleksander; YAFIN, A., Aleksandra; ...

Electrocardiogram and ... of the heart ...
following the ... ratio ... in the rat ...
Pol. 15 ro.3:307-338 51-1 Jan.

1. V. Zaklad Fizicheskoy Meditsiny (Electrocardiography) ...
med. J. Indler; ... Zaklad Fizicheskoy Meditsiny ...
i raznoy (Electrocardiography) ...
kardiology Akademii Meditsiny i ... (Electrocardiography) ...
S. Kowalev.

MAZUROWA, A.; MARCINIAK-SKUBISZYNSKA, A.

Complete atrioventricular block. Clinical observations. Kardiol.
Pol. 8 no.3:227-231 '65.

1. Z I Kliniki Chorob Wewnętrznych AM w Poznaniu (Kierownik: doc.
dr. K. Jasinski).

PRZYBYLKIENICZ, Z.; MAZUROWNA, W.

Typing of Shigella with specific bacteriophage. Med.dosw.Mikrob. 2
no.2:260-261 1950. (CLML 20:6)

1. Summary of the report given at 10th Congress of the Polish Microbiological and Epidemiological Society held in Gdansk, Sept. 1949. (Krakow.)

JEREMI MAZUROWSKI

POLAND / Chemical Technology, Chemical Products and Their
Application. Part 4 - Dyeing and Chemical Treat-
ment of Textile Materials.

H-33

Abs Jour : Ref. Zhur. Khimiya, No 4, 1958, 13309

Author : Jozef Majzner, Jeremi Mazurowski.

Inst : Not given

Title : Polane Dyeing with Unsoluble AzO-Dyes Formed on Fiber.

Orig Pub : Przem. włokienniczy, 1957, 11, No 1, 20 - 23.

Abstract : Dyeing of the polyamide polane fiber using azotols (I)
and azoamines (II) of Polish and partly German origin was
carried out parallelly by 3 methods. The first method ba-
sed on preliminary application of I to the fabric with fol-
lowing combination with dinitrated II is carried out impreg-
nating the fabric in 2 variations: a/ either with an alka-
line I solution, 2/ or with a suspension of I. By the se-

Card 1/3

POLAND / Chemical Technology, Chemical Products and Their
Application. Part 4 - Dyeing and Chemical Treat-
ment of Textile Materials.

H-33

Abs Jour : Ref. Zhur. Khimiya, No 4, 1958, 13309.

Abstract : cond method, the fabric is soaked first with an aqueous dis-
persion or solution of the hydrochloric salt of II, after
which the dinitration of II on the fiber and the combina-
tion under the action of the I solution are carried out.
The third method consists in a simultaneous treatment with I
and II with following dinitration and combination in an
acid solution of NaNO_3 . According to one variation, a paste
of I and II is made with the addition of alcohol, NaOH and
hot water; this paste is applied to the fabric at 70 to 80°
in the duration of 20 min., and the dinitration and combi-
nation is carried out in a solution containing 2 g of NaNO_2
and 5 mlit of 80%-ual HCOOH per lit at 70 to 80°. According
to another variation, fine dispersions of I and II are pre-
pared by precipitating I from an alkaline solution under the

Card 2/3

POLAND / Chemical Technology, Chemical Products and Their
Application. Part 4 - Dyeing and Chemical Treat-
ment of Textile Materials.

H-33

Abs Jour : Ref. Zhur. Khimiya, No 4, 1958, 13309

Abstract : action of 5%-ual HCl and II from an acid solution of its
hydrochloric salt under the action of 5%-ual NaOH. After
that the fabric is soaked in a mixture of both suspensions
in the ratio of 1 : 1 and dinitrated. It is found that by
the first method, non-intensive, instable and dull colors
are produced. The second method, especially of the varia-
tion b, yields good results. The third method yields also
good results, its first variation being simpler and more
economical than the second, which yields relatively faster
and brighter, although less intensive colorations.

Card 3/3

GRUSZKIEWICZ, J.; MAZUROWSKI, W.; SIERPINSKI, S.; SWITKA, A.

A case of a peculiar foreign body in the lateral ventricle of the brain. Neurol neurochir psych 12 no.1:135-137 Ja- F '62.

1. Klinika Neurochirurgiczna, Akademia Medyczna, Warszawa; Kierownik: prof. dr J. Chorobski; i III Klinika Chirurgiczna, Akademia Medyczna, Warszawa; Kierownik; prof. dr J. Raczynski.

WISLAWSKI, Jerzy; MAZUROWSKI, Witold

Surgical treatment of pilonidal sinus. Pol. tyg. lek. 17 no.43:1679-1681 22 D '62.

1. Z Kliniki Neurochirurgii AM w Warszawie; kierownik: prof. dr J. Chorobski.

(LIPONICAL CYST)

GRABAN, Wieslaw; MAZUROWSKI, Witold

Detection and localization of focal intracranial lesions with the aid of serum albumin labeled with I-131 and with sodium iodide labeled with I-131. Pol. przegl. radiol. 26 no.4:329-338 '62.

1. Z Zakladu Radiologii Lekarskiej AM w Warszawie Kierownik prof. dr. nauk med. W. Zawadowski i z Kliniki Neurochirurgicznej AM w Warszawie p.o. kierownik prof. dr L. Stepień.

(SERUM ALBUMIN RADIO IODINATED) (IODIDES) (IODINE ISOTOPES DIAGNOSTIC)
(BRAIN DISEASES) (RADIOMETRY)

GRABAN, W.; DOROSZEWSKI, J.; RAJSZYS, R.; MIERNOWSKI, S.;
MAZUROWSKI, W.; STROINSKA-KUSIOWA, B.

Comparison of gamma-ray encephalography with the results of
cerebral arteriography. Pol. przegl. radiol. 27 no.2:141-159
'63.

1. Z Zakladu Radiologii Lekarskiej AM w Warszawie Kierownik:
prof. dr nauk med. W. Zawadowski Z Kliniki Neurologicznej AM
w Warszawie Kierownik: prof. dr med. I. Hausmanowa-Petrusewicz
Z Kliniki Neurochirurgicznej AM w Warszawie Kierownik: prof.
dr med. L. Stepień.

(CEREBRAL ANGIOGRAPHY) (RADIOAUTOGRAPHY)
(BRAIN DISEASES) (ALBUMINS)

BANACH, Stefan; BIDZINSKI, Jerzy; MAZUROWSKI, Witold

Trauma as a cause of prolapse of the nucleus pulposus of the intervertebral disk. Chir. narzad. ruchu ortop. pol. 28 no.4:377-382 '63.

1. Z Kliniki Neurochirurgii AM w Warszawie p. o. kierownika kliniki: prof. dr L. Stepień.

(INTERVERTEBRAL DISK DISPLACEMENT)
(WOUNDS AND INJURIES)

WISLAWSKI, Jerzy; MAZUROWSKI, Witold; LEWICKI, Zdzislaw

Metastatic tumors of the brain. Nowotwory 14 no.3.253-257
Ag-S '64.

1. Z Kliniki Neurochirurgii Akademii Medycznej w Warszawie
(Kierownik: prof. dr. med. L. Stepień) i z Zakładu Anatomii
Patologicznej Akademii Medycznej w Warszawie (Kierownik:
doc. dr. med. R. Stanczykówna).

MAZUROWSKI, Witold

Acute epidural hematomas without cranial fractures. *Pol. 14 no.3:477-480* My-Je '61
neurochir., psychiat. *Pol. 14 no.3:477-480* My-Je '61

1. Z Kliniki Neurochirurgii Akademii Medycznej w Warszawie
(Kierownik: prof. dr. L. Stepień).

HRYNIEWSKA, Halina, dr. med.; MAZUROWSKI, Witold; SZLAMINSKI, Zbigniew

A case of chordoma of the base of the skull without many symptoms. Klin. oczna 34 no.4:425-428 '65.

1. Z Oddziału Ocznego Szpitala Wolskiego (Ordynator: dr. med. H. Hryniewska) i z Kliniki Neurochirurgii Akademii Medycznej w Warszawie (Kierownik: prof. dr. med. L. Stepień).

MAZUROWSKI, Witodl

The clinical picture and surgical therapy of acute intracranial
hematomas. Pol. tygod. lek. 19 no.5:171-173 30 Ja '64.

1. Z Kliniki Neurochirurgii Akademii Medycznej w Warszawie
(p.o. kierownik: prof. dr Lucjan Stepień).

MAZUROWSKI, Witold; NOWOSLANSKI, Adam

A case of echinococcosis of the 3rd ventricle with signs of a tumor of the posterior cranial fossa. Neurol., neurochir., psychiat. Pol. 15 no.1:187-190 Ja-F'65.

1. Z Kliniki Neurochirurgii Akademii Medycznej w Warszawie i z Oddziału Neurochirurgii Polskiej Akademii Nauk w Warszawie (Kierownik: prof. dr. med. L. Stepień) oraz z Zakładu Anatomii Patologicznej Akademii Medycznej w Warszawie (Kierownik: prof. dr. med. J. Groniowski).

MAZUROWSKI, Witold; WOCJAN, Juliusz

Ruptured duodenal ulcer as a cause of death in a 9-year-old
child operated on for cerebellar tumor. Pol. tyg. lek. 19
no.31:1202-1203 3 Ag '64

1. Z Kliniki Neurochirurgii Akademii Medycznej w Warszawie;
p.o. kierownik: prof. dr. L. Stepień.

1. MAZURS, J.
2. USSR (600)
4. Latvia - Hyroelectric power stations.
7. Determination of the output of rural hydoelectric power stations under conditons found in the Latvian S. S. R. Latv. PSR Zin Akad Vestis no. 12 1950

Monthly Lists of Russian Accessions, Library of Congress, March, 1953, Uncalssfied.

PLAUDE, K.; MAZURS, J.; PUTNINS, K.; ZANDERS, J., red.; FREIMANIS, V.,
tekh. red.

[Development of Latvian power engineering within the electric
power system of the U.S.S.R.] Latvijas energetikas attistiba
PSRS energosistema. Riga, Latvijas Valsts izdevnieciba, 1961.
98 p. (MIRA 15:3)

(Interconnected electric systems)
(Latvia--Power engineering)

MAZURS, Juris; ROZENBERGA, R., red.; BOKMANIS, R., tekhn. red.

[Prospects for the development of power engineering in the
U.S.S.R. and Latvian S.S.R.] PSRS un Latvijas PSR energeti-
kas attīstības perspektīvas. Rīga, Latvijas PSR Zinatnu akad.
izdevniecība, 1962. 61 p. (MIRA 16:5)
(Power engineering)

MAZURS, K.; ENDZELINA, M., red.; KIRULE, E., tekhn. red.

[Physical therapy] Fizikala terapija. Otrais, parstrad-
tais un papildinatais izdevums. Riga, Latvijas Valsts
izdevnieciba, 1962. 232 p. (MIRA 16:5)
(PHYSICAL THERAPY)

MAZURS, Yu. Ya.

"A Heat Electric Power Plant in a System With a Preponderance of Hydroelectric Stations." Sub 31, May 51, Power Engineering Institute imeni G. M. Krzhizhanovskiy

Dissertations presented for science and engineering degrees in Moscow during 1951.

SC: Sum. No. 480, 9 May 55

SMIRNOV, G.D.; MAZURSKAYA, P.Z.

Functional characteristics of the neurons of the optic centers.
Dokl. AN SSSR 150 no.2:434-437 My '63. (MIRA 16:5)

1. Institut morfologii zhivotnykh im. A.A.Severtsova AN SSSR.
Predstavleno akademikom A.N.Bakulevym.
(Optic nerve)

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Functional characteristics of exteroceptor projections in
the dorsal forebrain cortex in turtle. Zhur. evol. biokhim.
i fiziol. 1 no.5:442-448 5-0 '65. (MIRA 18:10)

1. Laboratoriya neyrobiologii Instituta morfologii zhivotnykh
imeni Severtsova AN SSSR, Moskva.

MAZURSKI, M.

Main tasks of the key building ceramics industry for 1955. p. 119

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (EZAL), Vol. 4, LC, No.9,
Sept. 1955, Uncl.

VOL. 10, no. 5, May 1955, MATERIALY BUDOWLANE

BEREZIN, F.V., inzh. (g.Leningrad); GONIMBERG, I.V., kand.tekhn.nauk
(g.Leningrad); GEL'VIT, Ya.K., inzh. (g.Leningrad); MAZURSKIY,
E.M., inzh. (g.Leningrad); ~~TEB~~-MIKAELYANTS, G.S., inzh. (g.Leningrad)

Useful work on the fundamentals of railroad design ("Fundamentals
of designing railroads with electric and diesel traction" by
G.I. Chernomordik, IU.E. Ryvkin. Reviewed by F.V. Berezin and
others). Zhel.dor.transp. 43 no.6:95-96 Je '61, (MIRA 14:7)
(Railroad engineering) (Chernomordik, G.I.)
(Ryvkin, IU.E.)

VLASOV, Ivan Ivanovich, doktor tekhn.nauk; PORSHNEV, Boris Georgiyevich, inzh.; FRAYFEL'D, Aleksandr Vladimirovich, kand.tekhn.nauk: Prinimali uchastiye: GOROSHEKOV, Yu.I., kand.tekhn.nauk; BARANOVA, M.A., inzh.. MAZURSKIY, E.M., inzh., retsenzent; SIDOROV, N.I., inzh., red.; VERINA, G.P., tekhn.red.

[Designing the contact network of electric railroads] Proekti-
rovanie kontaktnoi seti elektrifitsirovannykh zheleznykh dorog.
Moskva, Gos.transp.zhel-dor.izd-vo, 1959. 299 p. (MIRA 12:10)
(Electric railroads--Wires and wiring)

MAZURSKIY, E.M., inzh.

Increase of the rated capacity of mercury-arc rectifiers.
Trans. stroi. 13 no.8:57 Ag '63. (MIRA 17:2)

MAZURSKIY, E.M., inzh.

Calculation of flexible cross beams for points of support of transverse
messengers at various levels. Transp. stroi. 14 no.7:41-42. 1964.
(MIRA 18:1)

RAYKIN, L.S.; MAZURSKIY, L.A.

Installation work on a section being electrified. Transp. stroi.
8 no.11:12-13 N '58. (MIRA 12:1)

1. Nachal'nik tekhnicheskogo otdela tresta Transelektromontazh
(for Raykin). 2. Nachal'nik proizvodstvennogo otdela (for Mazurskiy).
(Railroads--Electrification)

MAZURUK, I. P.

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DL: 11504.07

SC: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, unclassified

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O nashei aviatsii [Our aviation]. Moskva, Gos. izd-vo det. lit., 1953.
96 p.

SO: Monthly List of Russian Accessions, Vol. 6 No. 8 November 1953

MAZURUK, I. ^[P]geroy Sovetskogo Soyuz.

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(MLRA 7:2)
(Aeronautics)

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Under the North Star. Tekh.mol. 22 no.10:1-7 0 '54. (MLRA 7:11)

1. Deystvitel'nyy chlen Geograficheskogo obshchestva SSSR.
(Arctic regions)

MAZURYK, M.F.

Data on farm accidents in Grebenkov District, Poltava Province.
Khirurgia no.10:46-49 0 '54. (MLRA 8:1)

1. Iz Grebenkovskoy rayonnoy bol'nitsy Poltavskoy oblasti.
(AGRICULTURE
inj. in Russia, statist.)
(WOUNDS AND INJURIES
agricultural inj. in Russia, statist.)

MAZUS, A. A. (Engineer, Tallin), BERSHTYN, V. O. (Engineer), POPLAVKIN, D. L. (Engineer, Riga), SHKURATOVSKIY, G. D. (Engineer, Tallin) and SAPIRO, L. S. (Candidate of Technical Sciences, Donetsk)

"The production of welding materials from local raw materials, improvement of power sources, and personnel training".

Report presented at the 3rd Baltic Conference on Welding, convened by the Sovnarkhozes of the Lithuanian SSR, Latvian SSR, and Estonian SSR, 8-9 Apr 1964, Vilnius.

[Avtomaticheskaya SVARKA, No. 7, 1964 p. 95)

MAZUS, B.; KLEMCZKOWSKI, K.

Aspartate carbamoyltransferase in higher plants. Bull. acad.
Pol. sci. [Biol.] 13 no.4:207-210 '65.

1. Submitted February 2, 1965.

MAZUS, Jędrzej (Warszawa)

The shape of the bagger plowshare and its correct operation.
Przegl budowl i bud mieszk 34 no.7:398-399 J1 '62.

MAZUS, Jędrzej

Comparison of the operational efficiency of bulldozers of circa
100 h.p. Przegl budowl i bud mieszk 34 no.8:485-486 Ag '62.

SAL'NIKOV, V.Ya.; MAZUS, Ya.Sh.

Self-sharpening cutting elements of the chopping units of corn harvesting combines. Trakt. i sel'khoz mash. no.7:31-32 J1 '64. (MIRA 18:7)

1. Gosudarstvennyy vsesoyuznyy nauchno-issledovatel'skiy tekhnologicheskiy institut remonta i ekspluatatsii mashinno-traktornogo parka (for Sal'nikov).
2. Spetsial'noye konstruktorskoye byuro Khersonskogo kombaynovogo zavoda im. G.I.Petrovskogo (for Mazus).

16(1) 16 3500

66721

AUTHOR: Maz'ya, V.G.

SOV/20-129-2-6/66

TITLE: On the Solution of the Dirichlet Problem for Equations of Elliptic Type

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 2, pp 257-260 (USSR)

ABSTRACT: In the bounded closed domain Ω of the E^n with the two times piecewise continuously differentiable boundary Γ the author considers the elliptic equation

$$(1) \quad \Delta u = \sum_{i,j=1}^n \frac{\partial}{\partial x_i} (a_{ij}(x) \frac{\partial u}{\partial x_j}) + \sum_{i=1}^n b_i(x) \frac{\partial u}{\partial x_i} + c(x)u = f(x),$$

where $a_{ij}, b_i \in C^{(1)}(\Omega)$, $c \in C^{(0)}(\Omega)$ and

$$(2) \quad \sum_{i,j=1}^n a_{ij} \alpha_i \alpha_j \geq \mu^2 \sum_{i=1}^n \alpha_i^2, \quad \mu^2 = \text{const} > 0.$$

He denotes $u(x) \in W_p^{(1)}(\Omega) \cap W_p^{(2)}(\Omega)$, $(1 \leq p \leq \infty)$ as generalized

solution of the Dirichlet problem in $W_{p,0}^{(2)}$, if it satisfies

Card 1/3 (1) almost everywhere. Let λ^2 be the first eigen value of

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SOV/20-129-2-6/66

On the Solution of the Dirichlet Problem for Equations of Elliptic Type

the operator $\mathcal{H}u = - \sum_{i,j=1}^n \frac{\partial}{\partial x_i} (a_{ij}(x) \frac{\partial u}{\partial x_j})$ in the class $W_2^{(2)}(\Omega)$.

Theorem 1: If in Ω there holds the inequality

$$(3) \quad 4\alpha(1-\alpha)\lambda^2 - c(x) + \alpha \sum_{i=1}^n \frac{\partial b_i(x)}{\partial x_i} \geq \mathcal{R}^2 = \text{const} > 0$$

for an $\alpha \in [0, 1]$ and if it is $f(x) \in L_{1/\alpha}(\Omega)$, then the solution $u(x)$ of the Dirichlet problem in $W_{1/\alpha,0}^{(2)}$ satisfies the inequality

$$(4) \quad \|u\|_{L_{1/\alpha}(\Omega)} \leq \frac{1}{\mathcal{R}^2} \|f\|_{L_{1/\alpha}(\Omega)}.$$

If $\alpha=0$ or $\alpha=1$ and $\mathcal{R}^2=0$, then (4) holds with another constant.

Theorem 2: If in Ω there holds (3) for $\alpha \in [0, 1]$, then for the solution of the Dirichlet problem $u(x) \in W_{p,0}^{(2)}(\Omega)$, $1 < p < \infty$

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there holds the apriori estimation

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SOV/20-129-2-6/66

On the Solution of the Dirichlet Problem for Equations of Elliptic Type

$$\|u\|_{W_p^{(2)}(\Omega)} \leq c \|f\|_{L_p(\Omega)}.$$

Further three theorems bring new statements of existence and uniqueness for the non-linear equation

$$(8) \quad \mathcal{H}u = \varphi(x; u, u_{x_j}).$$

The author mentions V.V.Nemytskiy and A.I.Koshelev.

There are 7 references, 3 of which are Soviet, 2 German, 2 French.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet imeni A.A.Zhdanova
(Leningrad State University imeni A.A.Zhdanov)

PRESENTED: July 3, 1959, by V.I.Smirnov, Academician

SUBMITTED: June 9, 1959

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85517

16.4600 16.2600 16.2600

S/020/60/133/003/019/031XX
C 111/ C 333

AUTHOR: Maz'ya, V. G., ~~10~~

TITLE: Classes of Domains and Imbedding Theorems for Functional Spaces

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 3, pp. 527-530

TEXT: Let D be a domain of E_n . Let $L_p^{(i)}(D)$ be the closure of $C^{(i)}(\bar{D})$ with respect to the norm

$$\|u\|_{L_p^{(i)}(D)} = \|\text{grad}_i u\|_{L_p(D)}$$

where

$$\text{grad}_i u = \left\{ \frac{\partial^i u}{\partial x_1^{\alpha_1} \dots \partial x_n^{\alpha_n}} \right\}, \quad \sum_v \alpha_v = i, \quad i \geq 0.$$

Let $W_p^{(1)}(D)$ ($p \geq 1$) be the closure of $C^{(1)}(\bar{D})$ with respect to the norm

$$\|u\|_{W_p^{(1)}(D)} = \sum_{i=0}^1 \|u\|_{L_p^{(i)}(D)}.$$

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S/020/60/133/003/019/031XX
C 111/ C 333

Classes of Domains and Imbedding Theorems for Functional Spaces

Let $u(x) \in C^{(1)}(\bar{D})$; $u > 0$, $|\text{grad } u| > 0$ almost everywhere. The equipotential surfaces of $u(x)$ generate a continuum of imbedded subsets E_ω , $\omega = \text{mes } E_\omega$ such that $u(x) \geq u(y)$, if $x \in E_\omega$, $y \in D \setminus E_\omega$. Let S_ω be the equipotential surface corresponding to the set E_ω . Let $\text{mes}_n E \{x; u(x) \geq t\} < \infty$ for $t \in (0, \infty)$.

Definition 1: D belongs to the class I_n^{p, q^*} ($p > 1$, $q^* \geq 1$), if there are positive constants $M \leq \text{mes}_n D^{p, q}$ and $O_\nu(M) < \infty$ such that for arbitrary S_ω ($0 \leq \omega \leq M$) it holds

$$(1) \quad \omega^{p'/q^*} \int_\omega \varphi_p^{-1}(\tau) d\tau \leq O_\nu(M),$$

where $\varphi_p^{-1}(\tau) = \int_{S_\tau} \left(\frac{d}{d\nu}\right)^{p-1} ds$; $d\nu$ the distance between S_τ and $S_{\tau+d\tau}$, $p^{-1} + p^{1-1} = 1$.

Definition 2: D belongs to the class

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Classes of Domains and Imbedding Theorems for Functional Spaces

$J_{\infty}^{(n)} (\alpha \geq \frac{n-1}{n})$, if there are $M \leq \text{mes}_n D$, $\mathcal{L}(M) < \infty$ which only depend on D such that for $\mu \leq M$ it holds

$$(2) \quad \mu(\alpha) \leq \mathcal{L}(M) \text{mes}_{n-1} S_{\mu}.$$

Theorem 1: If $p \leq q^*$, $q \leq q^*$ or $p > q^*$, $q < q^*$, then it holds

$$(3) \quad \|u\|_{L_q(D)} \leq c \left\{ A_p \| \text{grad } u \|_{L_p(D)} + M \frac{s-q^*}{sq^*} \right.$$

$$\cdot \|u\|_{L_s(D)} \left. \right\} \frac{q^*(q-r)}{q(q^*-r)} \cdot \|u\|_{L_r(D)} \frac{r(q^*-q)}{q(q^*-r)}$$

where $s < q^*$, $r < 1/p$, $p \geq 1$, if and only if D belongs to $I_{p,q^*}^{(n)}$ for $p > 1$ ($A_p = C_{1/p}$) and D belongs to $J_{1/q^*}^{(n)}$ for $p = 1$ ($A_1 = \mathcal{L}$).

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Classes of Domains and Imbedding Theorems for Functional Spaces

Theorem 2 is a corollary.

Definition 3: D belongs to $\tilde{I}_{p,q}^{(n)*}$ ($p > 1, q^* \geq 1$), if $D \in J_{p,q^*}^{(n)}$ and $\inf \Omega(M) \rightarrow 0$ for $M \rightarrow 0$.

Theorem 3: Let $\text{mes } D < \infty$. 1.) For the complete continuity of the imbedding operator of $L_p^{(1)}(D) \cap L_s(D)$ in $L_{q^*}(D)$ ($p \leq q^*$) it is necessary and sufficient that

$D \in \tilde{I}_{p,q^*}^{(n)}$ holds for $p > 1$ and $D \in \tilde{J}_{1/q^*}^{(n)}$ for $p = 1$. 2.) Under the assumptions of theorem 1 for $p > q^* > q$ the imbedding operator of $L_p^{(1)}(D) \cap L_s(D)$ in $L_q(D)$ is completely continuous

Theorem 4 is a corollary.

Theorem 5 treats the imbedding of $L_p^{(1)}(D) \cap L_s(D)$ in $C(D)$ - the space of the functions continuous and bounded in $\bar{D}$.

Theorem 6 treats the imbedding of $L_p^{(1)}(D) \cap L_s(\cap D)$

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S/020/60/133/003/019/C31XX
C 111/ C 333

Classes of Domains and Imbedding Theorems for Functional Spaces
in $L(D)$, where ΓD is the boundary of D which is measurable
according to Hausdorff.

S. L. Sobolev and V. P. Il'in are mentioned. The author thanks S. G. Mikhlin, Professor.

There are 4 references: 2 Soviet, 1 German and 1 Italian.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet imeni
A. A. Zhdanova (Leningrad State University imeni
A. A. Zhdanov)

PRESENTED: March 28, 1960, by V. J. Smirnov, Academician

SUBMITTED: March 17, 1960

Card 5/5

MAZ'YA, V.G.

Some evaluations of solutions of elliptic equations of the second order. Dokl.AN SSSR 137 no.5:1057-1059 Ap '61. (MIRA 14:4)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova.
Predstavleno akademikom V.I.Smirnovym.
(Differential equations, Partial)

MAZ'YA, V.G.

p-Conductivity and some theorems on the imbedding of certain
functional spaces into C-space. Dokl. AN SSSR 140 no.2:299-302
S '61. (MIRA 14:9)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova.
Predstavleno akademikom V.I.Smirnovym.
(Spaces, Generalized) (Aggregates)

MAZ'YA, V.G.; SOBOLEVSKIY, P.Ye.

Generating operators of semigroups. Usp.mat.nauk 17 no.6:
151-154 N-D '62. (MIRA 16:1)
(Operators (Mathematics)) (Groups, Theory of)

MAZ'YA, V.G.

Negative spectrum of Schrödinger's n -dimensional operator. Dokl.
AN SSSR 144 no.4:721-722 Je '62. (MIRA 15:5)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova.
Predstavleno akademikom V.I.Smirnovym.
(Operators (Mathematics))

S/020/62/147/002/003/021
B112/B186

AUTHOR: Maz'ya, V. G.

TITLE: Solvability of Neumann's problem

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 2, 1962, 294-296

TEXT: The Neumann problem $\int_{\Omega} \nabla v \nabla u \, dm_n(x) = \int_{\Gamma} v \mu(dx)$, (1) $u(x) \in L_2^{(1)}(\Omega)$ (cf. V. G. Maz'ya, DAN, 140, No. 2 (1961)) is considered. Here, $v(x) \in C^{(1)}(\bar{\Omega})$, m_n is an n -dimensional Lebesgue measure, and $\mu(E)$ is a given completely additive function of Borel sets $E \subset \Gamma$, which satisfies the condition $\mu(\Gamma) = 0$. For the unambiguous solvability of problem (1), several necessary and sufficient conditions are derived, which concern the classes containing the measure μ and the domain Ω , respectively. There is 1 figure.

PRESENTED: June 8, 1962, by V. I. Smirnov, Academician

SUBMITTED: June 5, 1962

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L3210

3/020/62/147/003/002/027

B112/B186

AUTHORS: Burago, Yu. D., Maz'ya, V. G., Sapozhnikova, V. D.

TITLE: Double layer potential for non-regular regions

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 3, 1962, 523 - 525

TEXT: A convex region $\Omega \subset E^3$ with the boundary Γ is considered. Γ is projected from an arbitrary point P onto the unit sphere S_P with the center P by the continuous mapping $\pi_P(\Gamma)$. The absolute variation v_P^0 of the mapping $\pi_P(\Gamma)$ is assumed to be uniformly bounded for all points $P \in E^3$. For any Borel set $\xi \subset \Gamma$, the "angle" $\omega(P, \xi)$ is defined in the following way: $\omega(P, \xi) = v_P(\xi)$ for $P \in \xi$, $\omega(P, \xi) = \omega(P, \xi \setminus P) + \omega(P, P)$, where $\omega(P, P) = 2\pi - \omega(P, \Gamma \setminus P)$, for $P \in \xi$. Here,

$$\|T\| = \frac{1}{2\pi} \sup_{S \in \mathcal{F}} \int_S |\omega(S, dX)| \leq \frac{M}{2\pi} + 1.$$

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S/020/62/147/003/002/027
B112/B186

Double layer potential for...

where $n_{\ell}^{+}(Y)$ and $n_{\ell}^{-}(Y)$ are the numbers of the original points on ℓ of the point $Y \in S_P$, the topological indices of which, referred to the mapping $\pi_P(\Gamma)$, are equal to +1 and -1, respectively. It is shown that

$$\omega(P, \Gamma) = \begin{cases} 4\pi, & \text{if } P \in \Omega; \\ 2\pi, & \text{if } P \in \Gamma; \\ 0, & \text{if } P \in \overline{C\Omega}. \end{cases}$$

The integral

$$W(P) = (1/2\pi) \int_{\Gamma} f(X) \omega(P, dX)$$

is called the potential of a double layer with the continuous density $f(X)$. The internal and external limiting values of $W(P)$ for $P \rightarrow S$, $S \in \Gamma$, are given by the expressions

$$\begin{aligned} W^{(i)}(S) &= f(S) + (1/2\pi) \int_{\Gamma} f(X) \omega(S, dX), \\ W^{(e)}(S) &= -f(S) + (1/2\pi) \int_{\Gamma} f(X) \omega(S, dX). \end{aligned}$$

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Double layer potential for...

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B112/B186

They are represented in the form

$$w^{(1)} = f + Tf, \quad w^{(e)} = -f + Tf.$$

The estimate

$$\|T\| = (1/2\pi) \sup_{S \in \Gamma} \int_{\Gamma} |\omega(S, dX)| \leq M/2\pi + 1$$

is derived. The Fredholm radius of the operator T is found to be equal to

$$2\pi \inf_{S \in \Gamma} (1/|\omega(S, S)|).$$

PRESENTED: June 9, 1962, by V. I. Smirnov, Academician

SUBMITTED: May 31, 1962

Card 3/3

BURAGO, Yu.D.; MAZ'YA, V.G.; SAPOZHNIKOVA, V.D.

On the double layer potential for nonregular regions. Dokl. AN SSSR
147 no.3:523-525 N '62. (MIRA 15:12)

1. Predstavleno akademikom V.I. Smirnovym.
(Surfaces) (Potential, Theory of)

S/043/63/000/001/003/011
D218/D308

AUTHOR:

Maz'ya, V. G.

TITLE:

On the maximum principle for a class of operators in the Banach space

PERIODICAL:

Leningrad. Universitet. Vestnik. Seriya matematiki, mekhaniki i astronomii, no. 1, 1963, 64-69

TEXT: This is a continuation of previous work reported by the author and P. Ye. Sobolevskiy (UMN, 6, 1962). To begin with, a linear functional f_x in a real Banach space B is considered and is such that $f_x(x) = \|x\|_B$ and $\|f_x\| = 1$. An operator A , acting in B with a domain $D(A)$, is then defined as belonging to the class $N(B)$ if for any element $x \in D(A)$

$$f_x(Ax) \leq \omega \|x\|_B. \quad (1)$$

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D218/D308

On the maximum...

The "parabolic" equation

$$\frac{dx}{dt} = A(t)x + \varphi(t), \quad t \in [0, T], \quad \varphi(t) \in B, \quad (6)$$

is then considered, where B is an arbitrary Banach space. It is shown that the following estimate holds for the solution of Eq. (6):

$$\|x(t)\|_B \leq \|x(0)\|_B e^{\int_0^t \omega(\tau) d\tau} + \int_0^t \|\varphi(\tau)\|_B e^{\int_\tau^t \omega(\sigma) d\sigma} d\tau. \quad (8)$$

A further equation, which is discussed, is

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On the maximum...

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D218/D308

$$\frac{d^2x}{dt^2} + A(t)x = 0, \quad t \in [0, T], \quad (11)$$

for which it is shown that, if $x(t)$ is the solution, then the maximum value of $\|x(t)\|_B$ is reached at one of the ends of the segment $[0, T]$. It is further shown that the differential operator

$$M = -a_{ijkl}D_{ijkl} + b_{ijk}D_{ijk} + c_{ij}D_{ij} + d_iD_i + e \quad (13)$$

belongs to the class $N(L_p)$ where $3/2 < p < 3$.

SUBMITTED: February 8, 1962

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L 12832-63

ACCESSION NR: AP3003215

EWT(d)/FCC(w)/BDS

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S/0020/63/150/006/1221/1224

AUTHOR: Maz'ya, V. G.

TITLE: On the Dirichlet problem for elliptic equations of arbitrary order in unbounded regions

SOURCE: AN SSR. Doklady*, v. 150, no. 6, 1963, 1221-1224

TOPIC TAGS: Dirichlet problem, square summable function, many-dimensional elliptic operator

ABSTRACT: Stated are necessary and sufficient conditions that there exists a solution of the Dirichlet problem for equation (1) of the enclosure in an n -dimensional region R , and also necessary and sufficient conditions that the spectrum of the operator of this problem in the space of all square-summable functions over R is discrete. The method used here is developed from the one given by A. M. Molchanov (Tr. Moskovsk. matem. obshch., 2, 1953, 169) for the proof of criteria that the spectrum of many-dimensional elliptic operators of order two is discrete. This report was presented by Academician V. I. Smirnov 16 Jan 63. Orig. art. has: 5 formulas.

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MAZ'YA, V.G.

Regularity at the boundary of solutions to elliptic equations
and conformal mapping. Dokl. AN SSSR 152 no.6:1297-1300 0 '63.
(MIRA 16:11)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova.
Predstavleno akademikom V.I. Smirnovym.

MAZ'YA, V. G.

Solvability in $W_2^{\circ(2)}$ of the Dirichlet problem for a region having
a smooth irregular boundary. Vest. LGU 19 no.7:163-165 '64.
(MIRA 17:7)

MAZUYA, V. G.; SAPOZHNIKOVA, V. I.

Remark on the regularization of a singular system in the isotropic theory of elastostatics. Vestn. IGK 19 no.7:165-167, 1974.
(Mir 17:7,

J. 37645-65 EWT(d)/EWT(1) IJP(o)

ACCESSION NR: AP4047523

S/C038/64/028/005/1145/1172

AUTHOR: Maz'ya, V. G.

TITLE: On the Theory of the Multidimensional Schrödinger Operator

SOURCE: AN SSSR. Izvestiya. Seriya matematicheskaya, v. 28, no. 5, 1964,

SOURCE: AN SSSR. Izvestiya. Seriya matematicheskaya, v. 28, no. 5, 1964, 1145-1172

TOPIC TAGS: Shrödinger operator, multidimensional Shrödinger operator, mathematical physics, wave operator, wave equation

ABSTRACT: The author considers the parameterless Shrödinger operator generated by the form

$$\int_D |\nabla u|^2 L_n(dx) - \int_D |u|^2 P(dx),$$

where D is an open set in R_n and P is a Radon measure that is not completely continuous relative to the n -dimensional Lebesgue measure. Necessary or

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L 37645-65

ACCESSION NR: AP4047523

2
sufficient conditions (sometimes necessary and sufficient) in terms of capacitance
are established for positivity and semiboundedness of the multidimensional
Shrödinger operator, and conditions for discreteness and finiteness of its
spectrum are found. "The author would like to express his deep gratitude to
M. Sh. Birman for his attention to the present paper." Orig. art has: 60 equa-

tion.

ASSOCIATION: Leningradskiy gos. universitet im. A. A. Zhdanova (Leningrad State University)

SUBMITTED: 03Jan64

ENC: 00

SUB CODE: MA

NO SOV REF: 011

OTHER: 008

Card 2/2 *mp*

L 36636-68 EWT(d) LJP(c)
ACCESSION NR: AP5001973

S/0020/64/159/006/1221/1223

AUTHOR: Maz'ya, V. G. ; Sapozhnikova, V. D.

TITLE: Solution of the Dirichlet and von Neumann problems for irregular regions by the methods of the potential theory

SOURCE: AN SSSR. Doklady, v. 159, no. 6, 1964, 1221-1223

TOPIC TAGS: Dirichlet problem solution, von Neumann problem solution, potential theory, double layer potential, single layer potential

ABSTRACT: In a previous paper (DAN 147, #3 (1962)), the authors generalized Radon's results (UMN 1, #3-4(1946)) pertaining to the potential of a double layer. In the present communication, they give a generalization of Radon's theory dealing with the potential of a single layer, and with the solubility of the Dirichlet and von Neumann problems. Two theorems are proven concerning the external and internal boundary fluxes of the potential of a single charged layer. The conditions for the solubility of the Dirichlet and von Neumann problems are determined.

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~~1 35636-45~~
ACCESSION NR: AP5001973

The authors are grateful to N. D. Burago for a discussion. Orig. art. has:
14 equations

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(Leningrad State University)

SUBMITTED: 04May64

ENCL: 00

SUB CODE: MA

NR REF SOV: 002

OTHER: 001

Cord 2/2

MAZ'YA, V.G.

Theory of the n-dimensional Schrodinger operator. Vest. LGU 20
no.1:134-137 '65. (MIRA 18:2)

MAZ'YA, V.G.; PLAMENEVSKIY, B.A.

Goursky problem for convolution type hyperbolic singular integral
equations. Vest. LSS 21 no.19:161-163 '65.

(MIRA 18:10)

L 3399C-65 ENT(d) Pg-4 IJP(c)

ACCESSION NR: AP5007650

S/0020/65/160/006/1250/1253

AUTHORS: Maz'ya, V. G.; Plamenevskiy, B. A.

TITLE: Singular equations with a symbol going to zero

SOURCE: AN SSSR. Doklady, v. 160, no. 6, 1965, 1250-1253

TOPIC TAGS: differential equations

ABSTRACT: In spaces of generalized functions, the authors study singular equations on the plane under the condition that the symbol can go to zero along a finite number of rays. In contrast to the case where the symbol is not degenerate, the solution of equations of convolution type which they treat is not uniquely determined. For equations of convolution type the authors consider three properly posed problems (in which conditions to guarantee unique solvability are adjoined). They give a problem for an equation with a symbol weakly depending on a pole. A typical problem is

$$Au = f, \quad (A_k^* u, 1) = \psi_k(\rho), \quad (k = 1, \dots, s = \sum_{j=1}^N l_j), \quad (1)$$

where A_k are singular operators with symbols

$$\Phi_k(\theta) \in \mathcal{L}_2^{(l)}$$

and

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